



## ecology and environment, inc.

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International Specialists in the Environment

### M E M O R A N D U M

DATE: June 12, 1986  
TO: File  
FROM: David Curnock DC  
SUBJECT: Illinois/R05-8303-01F/IL0294  
Aurora/Briggs (Lawndale)  
ILD021440367

On June 6, 1986, the author visited the Illinois State Water Survey in Batavia, Illinois to gather well log reports for the areas not covered by municipal systems in a three mile radius around the Briggs (Lawndale) site (Attachment 1).

Also on that same day a map of the Aurora municipal water system limit was obtained at the Aurora city office complex. Jack Kearns, Superintendent of Water Dept. of Aurora indicated that the service limits for the Aurora system followed the corporate boundaries. Similar information on the North Aurora Municipal Water was obtained from John Miller, Superintendent of Public Works of North Aurora. The distribution of water service follows the corporate boundaries.

08V:6X

EPA Region 5 Records Ctr.



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Attachment 1  
Briggs (Lawndale), Aurora, Illinois  
Areas not serviced by Municipal Water Systems

<u>Twp</u>	<u>Range</u>	<u>Section</u>	<u>Total</u>
T39N	R8E	33 (South)	3
T38N	R7E	12 (East)	3
		13 (East)	1
T38N	R8E	2	3
		3	6
		6	1
		9 (Northeast)	1
		10	18
		11	48
		[16	3 site location]
		29	67
		30	70
		32 (North)	Montgomery city wells, industrial users
		33 (North)	

All wells draw water from rock formations:

The general geology of the area consists of topsoil formed in glacial deposits overlying limestone bedrock with a thickness of about 500 feet followed by sandstone with a thickness of about 300 feet. Limestone is again found for another 150 feet followed again by sandstone for an additional 1000 feet.

General Geologic Column  
Briggs (Lawndale)  
Aurora, Illinois

<i>Strata</i>	<i>Thickness (ft)</i>	<i>Depth (ft)</i>
<b>PLEISTOCENE SERIES</b>		
Soil and glacial drift	38	38
<b>SILURIAN SYSTEM</b>		
Niagaran Series		
Dolomite, white	62	100
Alexandrian Series		
Dolomite, partly cherty, buff	80	180
<b>ORDOVICIAN SYSTEM</b>		
Maquoketa Group		
Dolomite, very argillaceous, green, gray, fine, granular; and shale, sandy, dolomitic, becoming calcareous at base	135	315
Galena Group		
Dolomite, buff, fine to medium crystalline; cherty dolomite (540-560 ft)	245	560
Platteville Group		
Dolomite, buff, gray, fine to very fine	93	653
Ancell Group		
Glenwood-St. Peter Sandstone		
Sandstone, white, medium, fine, incoherent	262	915
Prairie du Chien Group		
Oneota Dolomite		
Dolomite, cherty, pink, medium	85	1000
Gunter Sandstone		
Sandstone, slightly dolomitic, white, medium, fine, incoherent, little friable, dolomite, very sandy, white, fine to very fine, crystalline	35	1035
<b>CAMBRIAN SYSTEM</b>		
Eminence Dolomite		
Dolomite, sandy, glauconitic	65	1100
Potosi Dolomite		
Dolomite, clayey, reddish-buff	75	1175
Franconia Formation		
Sandstone, very glauconitic, dolomitic, greenish-gray, fine	75	1250
Ironton-Galesville Sandstone		
Sandstone, buff, medium to coarse, incoherent	178	1428
Eau Claire Formation		
Sandstone, dolomite, shale, interbedded	374	1802
Elmhurst Member		
Sandstone, gray, medium to very coarse, sooty	23	1825
Mt. Simon Sandstone		
Sandstone, gray, buff, medium to fine, some very coarse	327	2152

Table 13. Public water supply wells open to multiple aquifers (con't)

County Pumping facility	Population (pop/yr.) Average daily pumpage (gpd/yr)	Location (Sec,T/R)	No. of wells	Aquifers												Minor aquifers			Well yield(s) (gpm)	Well depth(s) (ft.)	Remarks	
				Q T	K n	P e c h	M c v a l u e	S a t u r a t i o n	C o n f i n e s s e n c e	G r o u n d w a t e r	E x p o s e d	I n t e r f a c e	E x p o s e d	M i n o r a q u i f e r s	P r i m a r y	F a c t o r						
Kane																						
Aurora	74,182 9,202,000/77	24,24,38N- 7E:1,68,45, 16,49,22, 24,29,34, 38N-8E	13 (4)																			See table 13 (DuPage Co.)
Batavia	8,994 * 1,586,682/77	22,23,39N- 8E	3																			Cross-connected to Geneva and St. Charles
Burlington	456 * 73,530/74	9,41N-6E	1																			See table 1
Elburn	1,122 * 140,132/75	5,39N-7E 32,40N-7E	2																			See table 1
Elgin	55,691 * 7,187,914/74	11,16,24, 41N-8E	13																			See table 1
Geneva	9,115 * 1,756,468/74	2,3,39N-8E	3																			See table 10. Cross- connected to Batavia and St. Charles
Hampshire	1,611 200,000/74	21,22,42N- 6E	3 (2)																			
Montgomery	3,278 * 1,594,524/72	31-34,38N- 8E	6 (2)																			See table 1
N. Aurora	4,833 750,000/74	4,38N-8E	3																			
St. Charles	12,945 * 2,388,211/73	27,34,40N- 8E	4																			See table 1. Cross- connected with Batavia and Geneva
W. Dundee	3,295 * 399,358/72	27,42N-8E	1																			See table 1
Kankakee																						
Herscher	1,127/74 121,000/77	29,30N-10E	3																			
Reddick	247 13,600/77	6,30N-9E	1																			